

UNITED STATES MARINE CORPS
Logistics Operations School
Marine Corps Combat Service Support Schools
Training Command
PSC Box 20041
Camp Lejeune, North Carolina 28542-0041

AOM 6201

STUDENT OUTLINE

INTRODUCTION TO THE MAINTENANCE INSTRUCTIONAL SECTION

LEARNING OBJECTIVE: Learning objectives are not specified; however, lesson content is controlled to provide the following information:

1. The purpose, scope, and broad objectives of the training provided by Maintenance Instructional Section.
2. Training conducted in each subcourse and module.
3. Policies pertaining to safety, fire prevention, fire fighting, rest breaks, smoking privileges, study assignments.
4. School policies associated with the conduct of training.

OUTLINE:

1. PURPOSE, SCOPE, AND BROAD OBJECTIVES OF THE TRAINING PROVIDED BY THE MAINTENANCE INSTRUCTIONAL SECTION

a. The purpose of the Maintenance Instructional Section is to teach you to perform organizational maintenance on tactical motor transport equipment.

b. This section is designed to impart the technical knowledge and develop the functional skills that will enable you to perform the inspections, diagnostic tests, adjustments, services and repairs to tactical motor transport equipment that are required to be accomplished at the organizational level.

c. Our objective is to prepare you to function effectively as a mechanic upon arrival at your first duty station and wherever you go in the Marine Corps.

2. SPECIFIC TRAINING CONDUCTED IN EACH SUB-COURSE AND MODULE

a. Maintenance Administration and Management

(1) Initially, the instruction in this subcourse will provide information on the categories and echelons of maintenance within the Marine Corps maintenance system.

(2) Next, you will be taught how to identify and extract information from the Department of the Army and the Marine Corps maintenance and supply technical publications associated with organizational maintenance of tactical motor vehicles.

(3) You will then learn how to administratively complete those portions of the Equipment Repair Order (ERO) and ERO Shopping/ Transaction List for which the mechanic is responsible.

(4) Additionally, you will be taught the purpose of and how to use and maintain the various forms and records associated with the maintenance of tactical motor transport equipment.

b. Principles of Automotive Mechanics

(1) This sub-course will provide an introduction to the care and use of tools, fastening hardware, tubing, tube fittings, and explain the purpose and principles of operation of the major components and systems that comprise tactical motor vehicles.

(2) Internal combustion engines, and their fuel, cooling, lubricating, air induction, and exhaust systems are also thoroughly covered.

(3) Next, you will receive instruction on basic automotive electricity and electrical systems such as the charging, cranking, wiring, and lighting systems. You will also learn how to solder and splice automotive wiring. This sub-course also provides instruction on the automotive power train, suspension system and steering system.

(4) Practical application will be performed on vehicle components and simulation training equipment to develop your skill in using diagnostic test equipment, performing automotive maintenance, and troubleshooting procedures.

c. M998 Instructional Module

(1) The instructional module provides performance training on organizational maintenance procedures that are applicable to the M998 vehicle.

(2) Specific lesson coverage includes second echelon maintenance procedures applicable to the DDA 6.2 liter diesel engine with emphasis on lubrication, air induction, and exhaust systems.

(3) Training on the fuel, battery, starting, charging, power transmission, brake, steering, and suspension systems will also be conducted.

(4) Practical application will be performed on operational vehicles and simulation training equipment to develop your skill in using diagnostic test equipment and performing troubleshooting procedures.

d. M809 Instructional Module

(1) This instructional module provides comprehensive training on organizational maintenance procedures for M809 Series vehicles.

(2) Initially, classroom instruction is provided to teach you how to identify and use M809 technical manuals and special tools. You will also receive lectures and demonstrations on the procedures for performing second echelon maintenance on the engine and its fuel, electrical, and cold starting aid systems and the rear suspension system. Training is also provided on the service brake mechanism, front axle, steering gear and clutch assemblies along with replacement of the transfer assembly.

(3) Practical application exercises performed on operational vehicles will provide you the opportunity to perform maintenance functions and diagnostic procedures that were explained and demonstrated in the classroom.

e. M939 Instructional Module

(1) Instructional emphasis is focused on maintenance functions that are peculiar to the M939 Series vehicles and differ from those applicable to the M809 series vehicles.

(2) Combined lectures, demonstrations, and practical application exercises on operational vehicles and simulation training equipment will be used to develop your ability to perform the required second echelon maintenance on the engine and its accessories; air brake systems; and wheel and parking brake mechanisms.

(3) Test equipment will be used to diagnose malfunctions that may occur within the battery, cranking, charging, and lighting systems.

f. Replacement of Major Automotive Assemblies. This sub-course is dedicated in its entirety to practical application training on the procedural techniques associated with the removal and installation of major assemblies featured on current models of tactical wheeled vehicles.

3. POLICIES PERTAINING TO SAFETY, FIRE PREVENTION, FIRE FIGHTING, REST BREAKS, SMOKING PRIVILEGES, AND STUDY ASSIGNMENTS

a. Safety. During your stay in the individual instructional modules, abide by all safety rules. Always report any incident, no matter how small, to your instructor. Abide by the following:

- (1) Think safety at all times.
- (2) Report anything found defective or unsafe to your instructor.
- (3) Never try to lift a two-man load.
- (4) Wear hearing protection when exposed to hazardous noise.
- (5) Horseplay of any type will not be tolerated in or around the classrooms, practical application, and performance laboratories.
- (6) Prevent heat stress by drinking plenty of water and taking a break if you feel faint during periods of hot weather.
- (7) Comply with all posted rules and regulations.
- (8) When in doubt, ask your instructor.

b. Fire Prevention and Fire Fighting Procedures. Fire prevention and fire fighting procedures are fairly self explanatory. The main thing is to always be aware of fire hazards. If you see something that you think may be a fire hazard, notify your instructor, or take care of it immediately. Your instructors will familiarize you with the fire fighting procedures and evacuation plan for each sub-course and instructional module. When possible, certain students will be assigned to close all windows and doors.

c. Rest Breaks and Smoking Privileges

(1) Normally, a ten minute break will be provided after each fifty minutes of instruction; however, the instructor may sometimes have to exceed his time required to get a point across. Do not become a clock watcher!

(2) Smoking is authorized during breaks, but only in designated smoking areas. The use of tobacco in any form is prohibited in the classroom, practical application and performance laboratories.

d. Study Assignments/Homework

(1) For the most part there is no assigned homework; however, if you want to enhance your knowledge and make the classes more understandable, the student outline will help you greatly.

(2) If you desire to use a technical manual after instructional hours, ask the instructor.

4. SCHOOL POLICIES ASSOCIATED WITH THE CONDUCT OF TRAINING

a. Daily Training Schedule

(1) Classes will commence at 0715 and secure at 1615. It is very important that you be on time. The instructors have a given amount of time to present their instruction.

(2) Most classes will end with a ten minute break and the noon meal goes from 1115 to 1215.

b. Testing and Grading

(1) The Maintenance Instructional Section is a mastery oriented program and testing procedures are structured to make sure that you have learned to perform the various MOS related tasks that are included in the course. To make sure that you have, in fact, acquired the knowledge and skills required to competently perform each task, all task oriented lessons include post tests, performance evaluations or both methods of evaluation.

(2) The grades you receive on those tests determine whether or not you have mastered the task or tasks for which you have received training. You must demonstrate mastery in order to satisfactorily complete the various phases of instruction.

(3) Tabbing or labeling of reference material used for evaluation is prohibited.

c. Remedial and Supplemental Instruction. It is the policy of Logistics Operations School that students who fail to maintain acceptable grades be required to attend after hours study hall.

d. Requirements for Successful Completion. In order to be successful while enrolled in a Marine Corps formal school, you must work hard and strive to achieve the highest grade possible. To do this, you must take good notes, ask questions, and most of all, make sure you understand everything that is covered during classroom and practical application exercises. Don't ever be afraid to ask questions or ask an instructor to work a little extra with you to clear up a problem.

5. EVALUATION

a. Internal Evaluation

(1) The effectiveness of each lesson is informally evaluated through the use of instructional rating forms. At least ten percent of the students will fill out these rating forms.

(2) The effectiveness of the training conducted in the Maintenance Instructional Section is evaluated through the use of critique sheets just prior to graduation.

b. External Evaluation. Three-to-four months after graduation, questionnaires are mailed to graduates and their

commanding officer to evaluate tasks you were trained on.
Please assist in the evaluation of your training by completing
the questionnaire that you receive.

REFERENCES:

Program of Instruction; Automotive Organizational Maintenance
Course
School/Section SOP for Academic Administration/Management